

a limit-surpass detector for detecting whether the transmit signal that has been subjected to the distortion compensation processing has surpassed a limit level; and
an amplitude controller for controlling the amplitude of the feedback signal when the limit level has been surpassed.

¹⁷
Claim ~~33~~³⁵. (Previously Presented) The distortion compensating apparatus according to claim ¹⁶~~32~~, wherein said amplitude controller controls the amplitude of the feedback signal based upon the amplitude or power of the transmit signal before the distortion compensation processing thereof.

¹⁸
Claim ~~34~~³⁶. (Currently Amended) The distortion compensating apparatus according to claim ¹⁶~~32~~, further comprising means for comparing the power of the transmit signal that has been subjected to the distortion compensation processing and a power, which is obtained by multiplying the power of the transmit signal before the distortion compensation processing thereof by k, and instructing said amplitude controller to start control of the amplitude of the feedback signal if the former power of the distorted transmit signal is greater than the latter obtained power when the limit level has been surpassed;

wherein said amplitude controller responds to the instructing to start amplitude control by controlling the amplitude of the feedback signal.

¹⁹
Claim ~~35~~³⁷. (Currently Amended) The distortion compensating apparatus according to claim ¹⁶~~32~~, further comprising means for comparing a power, which is obtained by multiplying the power of the transmit signal before the distortion compensation processing thereof by k, and the power of the transmit signal that has been subjected to distortion compensation processing, instructing said amplitude controller to start control of the amplitude of the feedback signal if the latter power of the distorted transmit signal is greater than the former power of the transmit signal when the limit

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level has been surpassed, and instructing said distortion compensation coefficient calculation unit to halt the updating of the distortion compensation coefficient if the difference between the two powers ~~former and the latter~~ has exceeded a threshold value;

wherein said amplitude controller responds to the instructing to start ~~amplitude control~~ by controlling the amplitude of the feedback signal, and said distortion compensation coefficient calculation unit responds to the instructing to halt the updating of the distortion compensation coefficient by halting calculation of the distortion compensation coefficient. ✓

²⁰
Claim ~~36~~. (Currently Amended) The distortion compensating apparatus according to claim ¹⁶~~32~~, further comprising means for comparing the power of the transmit signal that has been subjected to the distortion compensation processing and a power which is obtained by multiplying the power of the transmit signal before the distortion compensation processing thereof by k , instructing said amplitude controller to start control of the amplitude of the feedback signal if the ~~former~~ power of the distorted transmit signal is greater than the ~~latter~~ obtained power when the limit level has been surpassed, and inputting the difference between the ~~former and the latter~~ two powers to said distortion compensation coefficient calculation unit;

wherein said amplitude controller responds to the instructing to start ~~amplitude control~~ by controlling the amplitude of the feedback signal, and said distortion compensation coefficient calculation unit changes a parameter value, which is used in the calculation of the distortion compensation coefficient, based upon said difference.

²¹
Claim ~~37~~. (Currently Amended) The distortion compensating apparatus according to claim ¹⁶~~32~~, further comprising a digital-to-analog (DA) [(DA)] converter for converting a digital transmit